General Description

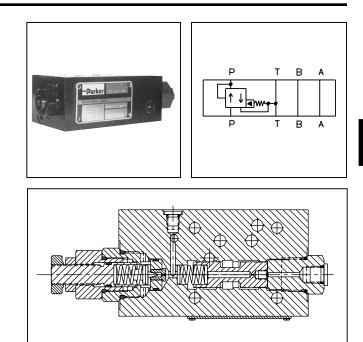
Series PRM reducing valves are used to regulate pressure, in one area of a circuit, below normal system pressure. The Manapak style valve is well suited to perform this function as it mounts directly below the directional control valve.

Operation

These are "normally open" valves that allow fluid to pass through the controlled port during typical operation. When downstream pressure rises above the value set by an adjustable spring force, the control pilot opens and allows the main spool to move from a full open position. The main spool modulates to maintain the desired "reduced pressure" downstream of the valve. The PRM3 also has a relieving mode.

Features

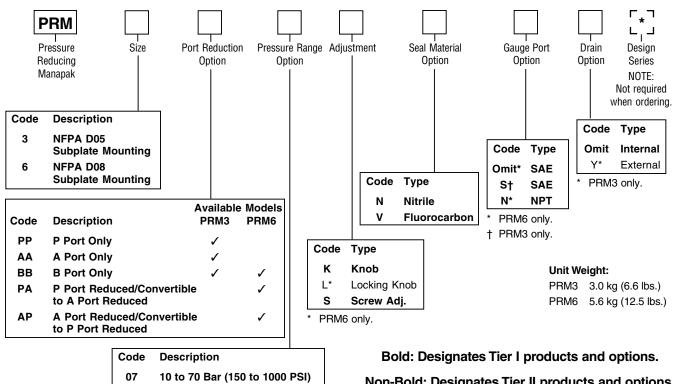
- Parker Manapak PRM sandwich style pressure reducing valves can be used to reduce pressure on the 'P' port, the 'A' port, or the 'B' port.
- Three pressure adjustment options are available: slotted screw, knob and locking knob. (PRM6 only)
- Valve bodies are manufactured from steel which provide extra strength and durability for longer life. Internal hardened steel components also provide longer life.



Specifications

	PRM3	PRM6	PRM3/PRM6			
Mounting Pattern	NFPA D05, CETOP 5, NG 10	NFPA D08, CETOP 8, NG 25	Venting	Connecting the vent port to tank allows the reducing valve to divert flow at minimum		
Minimum Pressure	10 Bar (150 PSI) with rated flow, 150 SSU oil, and fluid temperature of 38°C (100°F). ¹		Remote	pressure. Remote control valve connected to the vent		
Maximum Pressure	345 Bar (5000 PSI)	345 Bar (5000 PSI)	Control	port can be used to control the pressure. ²		
Min. Flow	3.78 LPM (1 GPM)	3.78 LPM (1 GPM)	Drain Line	Drain line from pilot valve is internally connected to the tank port. Tank line pressure is thus added to the valve setting. ³		
Maximum Flow	64 LPM (17 GPM)	189 LPM (50 GPM)	_ minimum pr	¹ Change in flow, temperature or fluid (SSU) rating will affect valve minimum pressure.		
Pressure Range	Code Pressure Range 07 10 to 70 Bar (150 - 1000 PSI) 17 10 to 175 Bar (150 - 2500 PSI) 25 10 to 250 Bar (150 - 3500 PSI) 35 10 to 350 Bar (150 - 5000 PSI)		 ² Set main valve pressure 10 Bar (150 PSI) higher than remote pilot. ³ It is important that the drain line connection be taken into consideration when determining the minimum valve setting. 			





17 10 to 175 Bar (150 to 2500 PSI)

- 25 10 to 250 Bar (150 to 3500 PSI
- 10 to 345 Bar (150 to 5000 PSI) 35

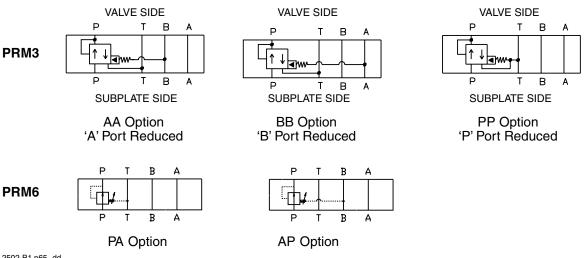
Non-Bold: Designates Tier II products and options. These products will have longer lead times.

Manapak Bolt Kits

Schematics

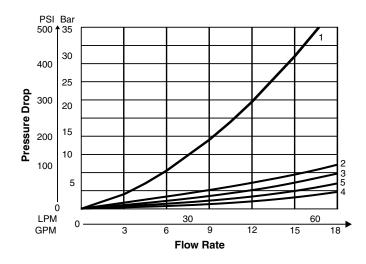
Size "3"				Size "6"				
		Bolt Length mm (in)	No. of Manapaks	Manapak & Valve Combination	Bolt Length mm (in)			
1	Manapak & D3	BK141	88.9 (3.50)	1	Manapak & D6	BK121	133.4 (5.25)	
2	Manapak & D3	BK142	139.7 (5.50)	2	Manapak & D6	BK122	203.2 (8.00)	
3	Manapak & D3	BK143	190.5 (7.50)	3	Manapak & D6	BK123	273.1 (10.75)	
* D31VW with internal pilot and internal drain only.				4	Manapak & D6	BK124	342.9 (13.5)	

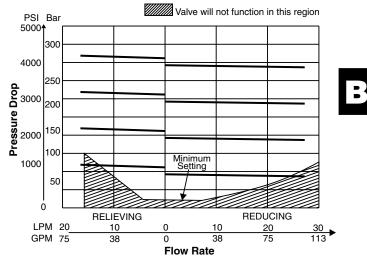
Bolt Kits must be ordered separately.





Performance Curves





	Flow Path						
Mode	$P \rightarrow P$ $A \rightarrow A$		$B\toB$	$T\toT$			
PP	1 2		3	4			
AA	1	1 2 3		5			
BB 1		2	3	5			

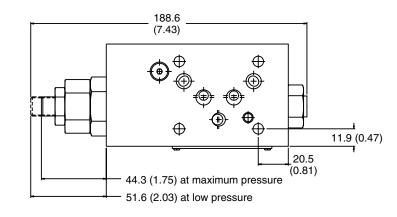
Viscosity Correction Factor								
Viscosity (SSU)	75	150	200	250	300	350	400	
% of ΔP (approx.)	93	111	119	126	132	137	141	
Curves were generated using 100 SSU hydraulic oil. For any other viscosity, pressure drop will change per chart.								

NOTE: Lowest pressure setting dependent upon system resistance.

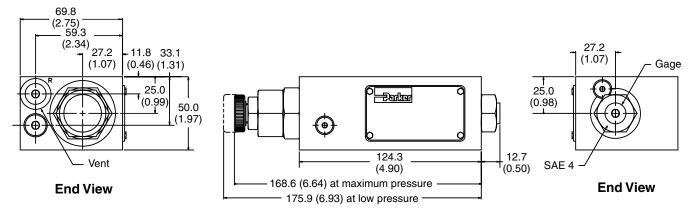


PRM3AA

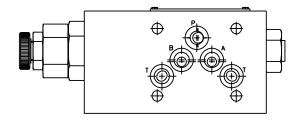
Inch equivalents for millimeter dimensions are shown in (**)







Face View



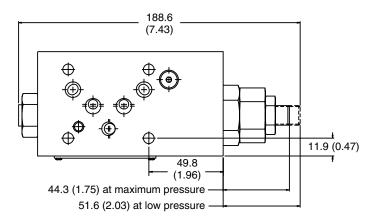
Bottom View



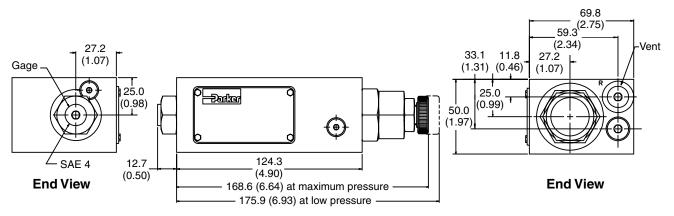


PRM3BB

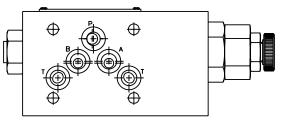
Inch equivalents for millimeter dimensions are shown in (**)







Face View



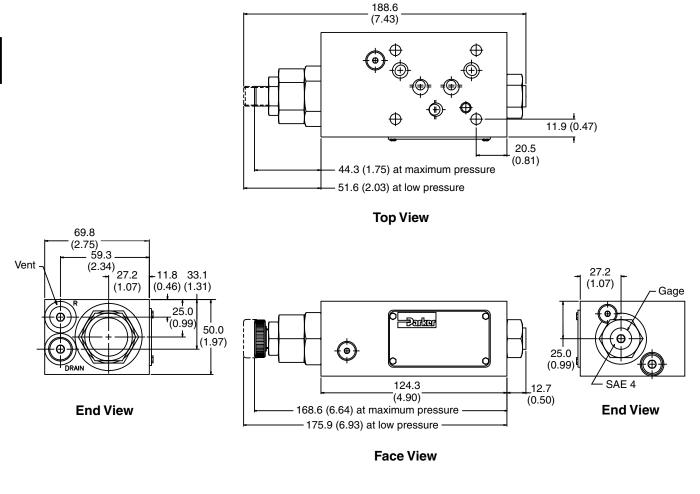
Bottom View

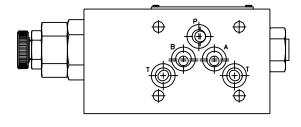




PRM3PP

Inch equivalents for millimeter dimensions are shown in (**)



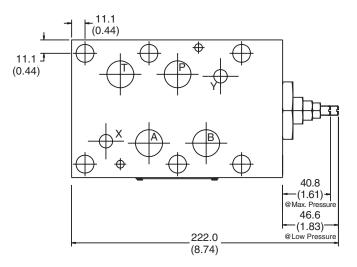


Bottom View

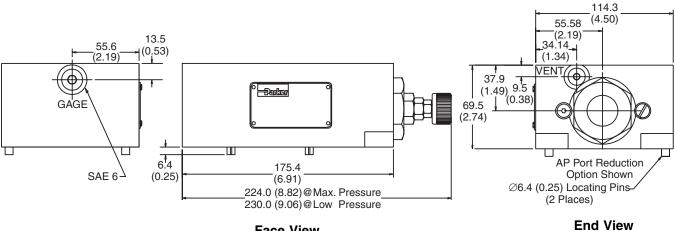




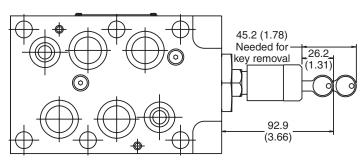
Inch equivalents for millimeter dimensions are shown in (**)







Face View



Bottom View

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